

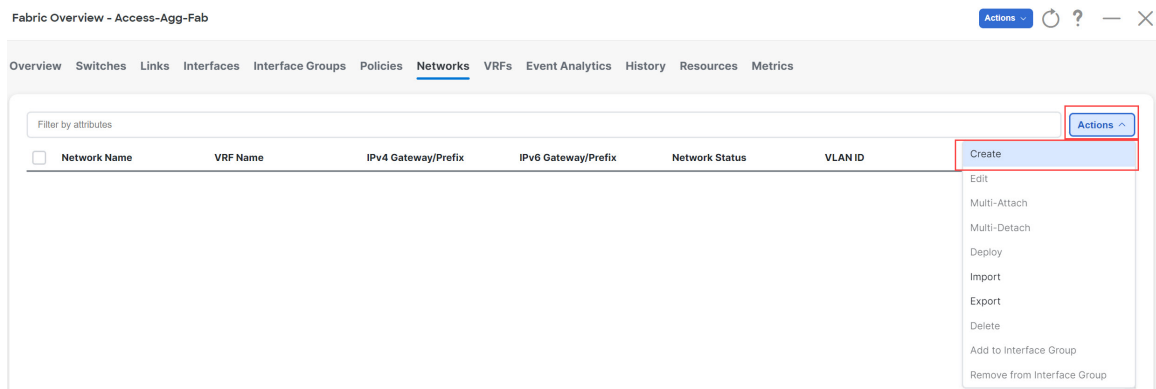


# Day 1 Configurations

- [Create a Layer 2 Network, on page 1](#)
- [Create a Layer 3 Network, on page 6](#)
- [Configure the VRF Lite Extension, on page 12](#)

## Create a Layer 2 Network

- Step 1** In NDFC, navigate to **LAN > Fabrics**, if you are not there already.  
A page showing all of the configured fabrics appears.
- Step 2** Double-click the Enhanced Classic LAN fabric that you created using the procedures provided in [Configure the Enhanced Classic LAN Fabric](#).  
The **Fabric Overview** page for that fabric appears.
- Step 3** Click the **Networks** tab.
- Step 4** Create the Layer 2 network.  
a) In the **Networks** tab, click **Actions > Create**.



- The **Create Network** window appears.
- b) In the **Create Network** screen, enter the necessary information.

- A default name for the Layer 2 network is automatically generated in the **Network Name** field, but you can change it, if necessary.
- In the **Layer 2 Only** field, check the box to enable this option. This specifies that this network is Layer 2 only.
- In the **VLAN ID** field, enter a value to use for the associated VLAN, or click **Propose VLAN** to have NDFC propose a VLAN ID for your Layer 2 network, based on the available resources (the range is customizable in **Fabric Settings**).
- In the **Network Template** field, leave the default `Network_Classic` option selected.  
This is the correct template to use for the Layer 2 network.
- The gateway for a Layer 2 network resides outside of the fabric; therefore, the IP addresses in the **General Parameters** page are left empty.

- Fill in the remaining fields as necessary for your Layer 2 network, if necessary.
- Click **Create**.

You are returned to the **Networks** tab for the Enhanced Classic LAN fabric.

### Step 5 Add the network to an interface group, if necessary.

Interface groups are useful if you are trying to deploy a network to a group of interfaces.

- In the **Networks** tab for the Enhanced Classic LAN fabric, click on the Layer 2 network that you just created, then click **Actions > Add to Interface Group**.

Fabric Overview - Access-Agg-Fab

Overview Switches Links Interfaces Interface Groups Policies **Networks** VRFs Event Analytics History Resources Metrics

Filter by attributes

	Network Name	VRF Name	IPv4 Gateway/Prefix	IPv6 Gateway/Prefix	Network Status	VLAN ID
<input type="checkbox"/>	MyNetwork_30001	NA			DEPLOYED	2301
<input type="checkbox"/>	MyNetwork_30000	NA			DEPLOYED	2300
<input checked="" type="checkbox"/>	MyNetwork_30003	MyVRF_50001			NA	2303
<input type="checkbox"/>	MyNetwork_30002	default			DEPLOYED	2302

Actions ^

- Create
- Edit
- Multi-Attach
- Multi-Detach
- Deploy
- Import
- Export
- Delete
- Add to Interface Group
- Remove from Interface Group

- b) Select the interface group that you want to add, or click **Create Interface Group** to create a new interface group to add.

## Add to Interface Group

Selected Networks\*

1 network >

Interface Group\*

IG

Create Interface Group

For more detailed procedures on adding a network to an interface group, see [Interface Groups](#) in the *Cisco NDFC-Fabric Controller Configuration Guide*.

### Step 6 Attach the network.

Once you've created the Layer 2 network, you can attach it to host-facing ports on the Access switch, which will then allow the VLAN on these trunk or access ports and also on the vPC/port channel/standalone ports between the Access and Aggregation switches.

Determine if you want to perform a **quick attach** or a **multi-attach**.

- If you want to perform a **quick attach**, where you will attach this network to the selected switches, follow these steps:
  - a) In the **Networks** tab for the Enhanced Classic LAN fabric, double-click on the Layer 2 network that you just created.
  - b) Click the **Network Attachments** tab.

- c) Locate the switches with **aggregation** shown in the **Switch Role** column and click the boxes next to those switches.

Network Overview - MyNetwork\_30000

Overview **Network Attachments** VRFs

Note: Access switches are not directly displayed, but are configured via aggregation switches.

Filter by attributes

<input checked="" type="checkbox"/>	Network Name	VLAN ID	Switch	Ports	Status	Attachment	Switch Role	Fab
<input checked="" type="checkbox"/>	MyNetwork_30000		fabric1-border2	NA	NA	Detached	aggregation	Acc
<input checked="" type="checkbox"/>	MyNetwork_30000		fabric1-border1	NA	NA	Detached	aggregation	Acc

Actions

- History
- Edit
- Preview
- Deploy
- Import
- Export
- Quick Attach**
- Quick Detach

- d) Click **Actions > Quick Attach**, then go to [Step 7, on page 5](#).

- If you want to perform a **multi-attach**:

- a) In the **Networks** tab for the Enhanced Classic LAN fabric, click on the Layer 2 network that you just created, then click **Actions > Multi-Attach**.

Fabric Overview - Access-Agg-Fab

Overview **Switches** Links Interfaces Interface Groups Policies **Networks** VRFs Event Analytics History Resources Metrics

Filter by attributes

<input checked="" type="checkbox"/>	Network Name	VRF Name	IPv4 Gateway/Prefix	IPv6 Gateway/Prefix	Network Status	VLAN ID
<input checked="" type="checkbox"/>	MyNetwork_30001	NA			NA	2301
<input type="checkbox"/>	MyNetwork_30000	NA			DEPLOYED	2300

Actions

- Create
- Edit
- Multi-Attach**
- Multi-Detach
- Deploy
- Import
- Export
- Delete
- Add to Interface Group
- Remove from Interface Group

- b) Click the box next to each switch that you want to attach to the network, then click **Next**.

- c) Click the box next to each interface that you want to select, then select the interfaces using either **Bulk Paste** or **View Interfaces**.

Multi-Attach of Networks

1 Select Switches 2 **Select Interfaces** 3 Summary

Select Interfaces

Filter by attributes

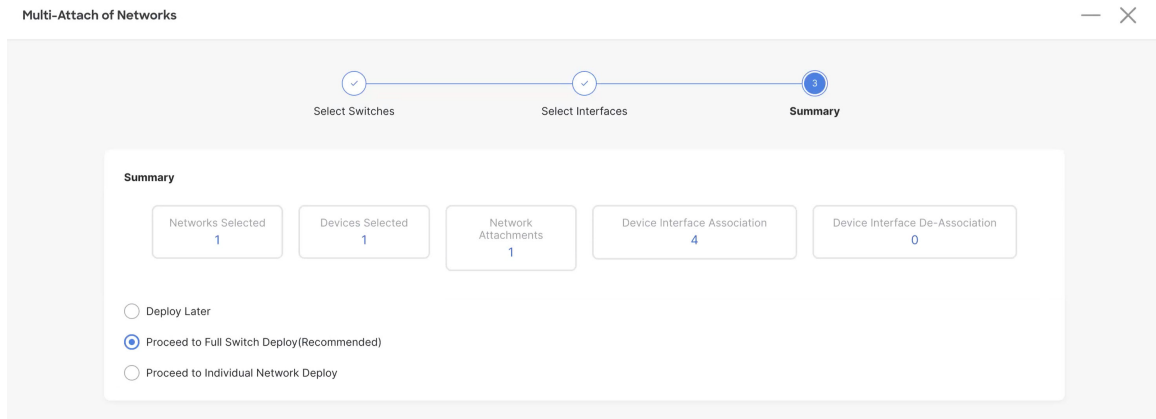
Bulk Paste

<input checked="" type="checkbox"/>	Network Name	Switch Name	Peer Switch Name	ToR Switches	Interfaces List	Action
<input checked="" type="checkbox"/>	MyNetwork_30001	fabric1-border1	fabric1-border2	Agg1,Agg2		<b>View Interfaces</b>

- If you select **Bulk Paste**, enter the interfaces to be pasted in the **Interfaces List** area, then click **Save**.

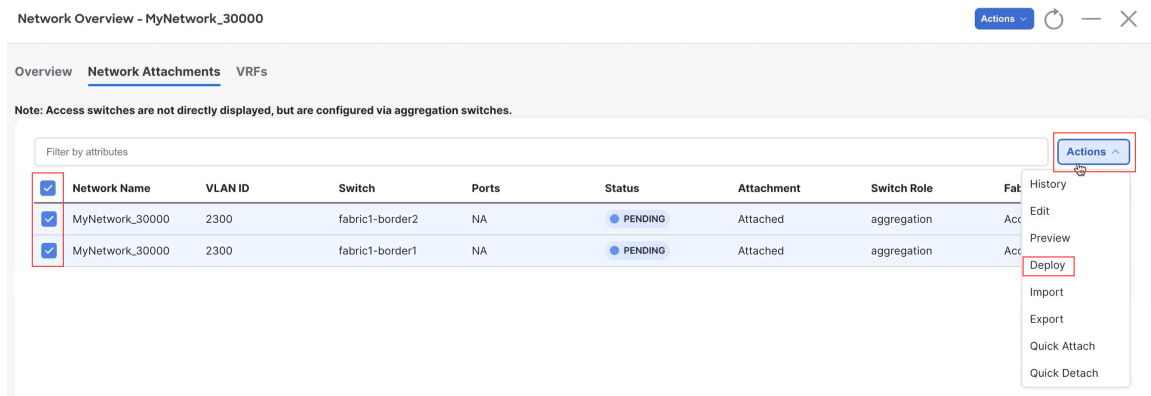
- If you select **View Interfaces**, click the boxes next to the specific ports that you want to attach in the following screen, then click **Save**.

- In the Select Interfaces window, click **Next**.
- Make the necessary deployment selection in the next window, then click **Save**.



### Step 7 Deploy the network.

In the **Network Attachments** window, select the networks that you just attached, then click **Actions > Deploy**.



### Step 8 When the recalculation process is completed, click **Deploy** and verify that the status shown in the **Config Status** column shows as **In-Sync**.

Deploy Configuration - Access-Agg-Fab

Filler by attributes

Network Name	Fabric Name	Switch Name	Serial Number	IP Address	Role	Network Status	Status Description	Progress
MyNetwork_30000	Access-Agg-Fab	fabric1-border2	FDO22230TDY	172.25.65.131	aggregation	In-Sync	Config compliance sync completed	<div style="width: 100%;"></div>
MyNetwork_30000	Access-Agg-Fab	fabric1-border1	FDO22230BXL	172.25.65.130	aggregation	In-Sync	Config compliance sync completed	<div style="width: 100%;"></div>

### What to do next

Create a Layer 3 network using the procedures provided in [Create a Layer 3 Network, on page 6](#).

## Create a Layer 3 Network

A Layer 3 network can be in either a default or a custom VRF.

### Before you begin

#### Step 1

Navigate to the **Networks** tab for the Enhanced Classic LAN fabric, if you are not there already.

- a) In NDFC, navigate to **LAN > Fabrics**.

A page showing all of the configured fabrics appears.

- b) Double-click the Enhanced Classic LAN fabric that you created using the procedures provided in [Configure the Enhanced Classic LAN Fabric](#).

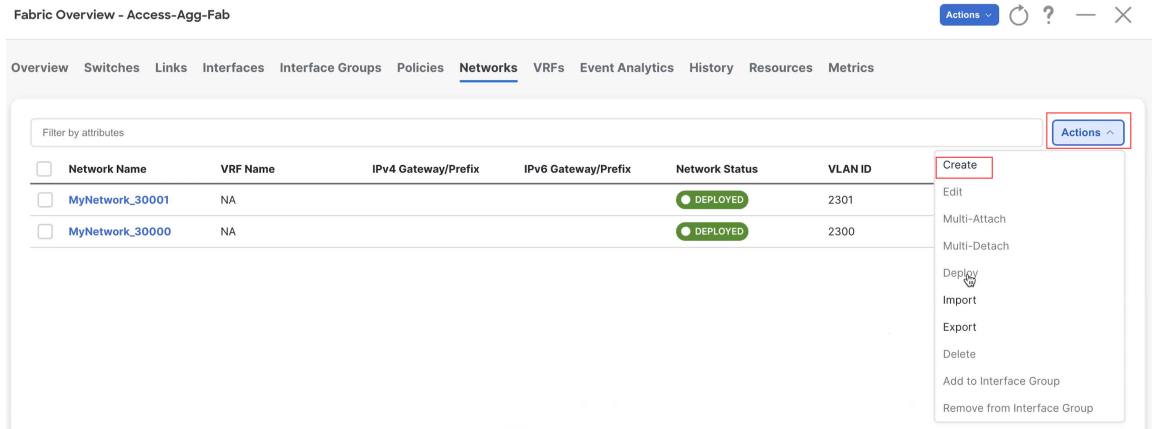
The **Fabric Overview** page for that fabric appears.

- c) Click the **Networks** tab.

#### Step 2

Create the Layer 3 network.

- a) In the **Networks** tab, click **Actions > Create**.



The **Create Network** window appears.

- b) In the **Create Network** screen, click the **General Parameters** tab and enter the necessary information.
- Change the name for the Layer 3 network in the **Network Name** field, if necessary.  
The entry in the **Network Name** field is auto-populated but can be changed, if necessary.
  - In the **Layer 2 Only** field, verify that there is no check in the box so that this option is not enabled.  
You do not want the **Layer 2 Only** option enabled for a Layer 3 network.
- c) Determine if you want to use the default VRF or if you want to create a VRF for this Layer 3 network.
- If you want to use the default VRF for this Layer 3 network, in the **VRF Name** field, choose `default` from the list of VRFs available. Go to [2.d, on page 8](#).
  - Follow these steps if you want to create a custom VRF for this Layer 3 network:
    - In the **VRF Name** field, click **Create VRF**.  
The **Create VRF** page appears.  
Change the name for the custom VRF for the Layer 3 network in the **VRF Name** field, if necessary. The entry in the **VRF Name** field is auto-populated but can be changed, if necessary.
    - Click the **General Parameters** tab and enter the necessary information.  
(Optional) Enable the **Enable Auto Peering over SVI Between VPC Aggregations** option if desired, which enables per VRF iBGP or OSPF peering between Aggregation switches. Note that the protocol used is based on the VRF-Lite routing protocol configured in the Fabric setting.
    - Click the **Advanced** tab and enter the necessary information.  
The settings in the **Advanced** area include options for BGP authentication, route maps, and static 0/0 configurations, where you could configure a default (0/0) route towards the core switch.
    - Click **Save** to save the custom VRF for the Layer 3 network.  
You are returned to the **Create Network** page.  
Once this Layer 3 network is attached in the next step, if the **Enable Auto Peering over SVI Between VPC Aggregations** option is enabled, NDFC will create the configuration for an iBGP peering session or an

OSPF neighborship between the Aggregation switches for this new VRF, including the VLAN ID and the IP address for the SVI.

- d) In the **Create Network** screen, enter the necessary information in the remaining fields in the **General Parameters** tab.

- In the **VLAN ID** field, enter a value to use for the associated VLAN, or click **Propose VLAN** to have NDFC propose a VLAN ID for your Layer 3 network, based on the available resources (the range is customizable in **Fabric Settings**).

- Define the gateway IP address in either the **IPv4 Gateway/Netmask** or the **IPv6 Gateway/Netmask** fields.

You must define the IPv4 or IPv6 gateway IP address for the Layer 3 network. For these procedures, the gateway is the Aggregation switch within the fabric.

**Note** For the next two fields in the **General Parameters** tab, note that you will be defining the active and standby devices in a later step in these procedures.

- Define the interface address on the active/master device in either the **Interface IPv4 addr on active** or the **Interface IPv6 addr on active** fields.

- Define the interface address on the standby/backup device in either the **Interface IPv4 addr on standby** or the **Interface IPv6 addr on standby** fields.

- e) In the **Create Network** screen, click the **Advanced** tab and enter the necessary information.

Customize the First Hop Redundancy Protocol settings (either HSRP or VRRP, based on the fabric settings) in this page. You can determine which of the Aggregation switches will be used for the active and standby First Hop Redundancy Protocol when you attach the network.

- f) Fill in the remaining fields as necessary for your Layer 3 network.

- g) Click **Create**.

The **Networks** page displays the newly created Layer 3 network and accompanying VRF.

Fabric Overview - Access-Agg-Fab Actions ⌵ ↻ ? — ✕

Overview Switches Links Interfaces Interface Groups Policies Networks VRFs Event Analytics History Resources Metrics

Filter by attributes Actions ⌵

<input type="checkbox"/>	Network Name	VRF Name	IPv4 Gateway/Prefix	IPv6 Gateway/Prefix	Network Status	VLAN ID	Interface Group
<input type="checkbox"/>	MyNetwork_30001	NA			DEPLOYED	2301	
<input type="checkbox"/>	MyNetwork_30000	NA			DEPLOYED	2300	
<input checked="" type="checkbox"/>	MyNetwork_30002	default	20.0.0.1/24		NA	2302	

**Step 3** Add the network to an interface group, if necessary.

Interface groups are useful if you are trying to deploy a network to a group of interfaces.

- a) In the **Networks** tab for the Enhanced Classic LAN fabric, click on the Layer 3 network that you just created, then click **Actions > Add to Interface Group**.



Fabric Overview - Access-Agg-Fab

Overview Switches Links Interfaces Interface Groups Policies **Networks** VRFs Event Analytics History Resources Metrics

Filter by attributes

Network Name	VRF Name	IPv4 Gateway/Prefix	IPv6 Gateway/Prefix	Network Status	VLAN ID
<input type="checkbox"/> MyNetwork_30001	NA			DEPLOYED	2301
<input type="checkbox"/> MyNetwork_30000	NA			DEPLOYED	2300
<input checked="" type="checkbox"/> MyNetwork_30003	MyVRF_50001			NA	2303
<input type="checkbox"/> MyNetwork_30002	default			DEPLOYED	2302

Actions

- Create
- Edit
- Multi-Attach
- Multi-Detach
- Deploy
- Import
- Export
- Delete
- Add to Interface Group
- Remove from Interface Group

- b) Select the interface group that you want to add, or click **Create Interface Group** to create a new interface group to add.

## Add to Interface Group

Selected Networks\*

1 network >

Interface Group\*

IG

Create Interface Group

For more detailed procedures on adding a network to an interface group, see [Interface Groups](#) in the *Cisco NDFC-Fabric Controller Configuration Guide*.

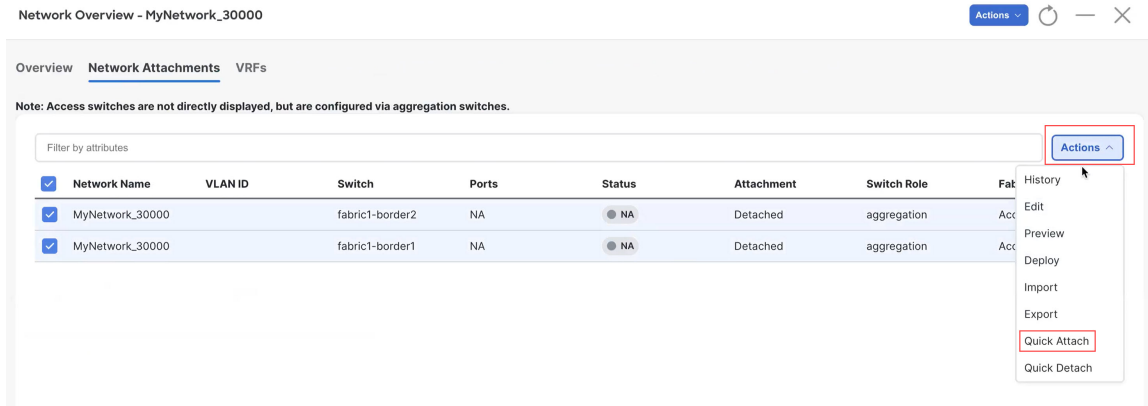
### Step 4 Attach the network.

Once you've created the Layer 3 network, you can attach it to host-facing ports on the Access switch, which will then allow the VLAN on these trunk or access ports and also on the vPC/port channel/standalone ports between the Access and Aggregation switches.

Determine if you want to perform a **quick attach** or a **multi-attach**.

- If you want to perform a **quick attach**, where you will attach this network to the selected switches, follow these steps:
  - a) In the **Networks** tab for the Enhanced Classic LAN fabric, double-click on the Layer 3 network that you just created.
  - b) Click the **Network Attachments** tab.

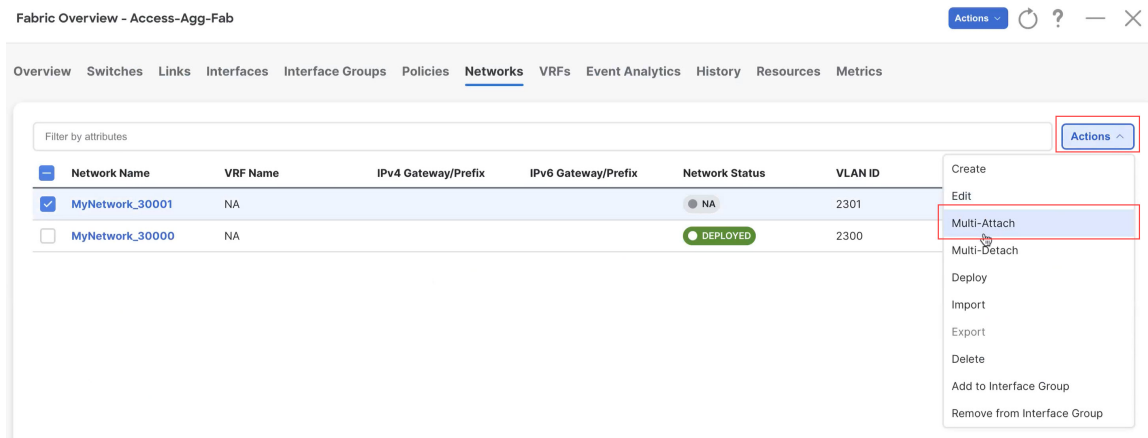
- c) Locate the switches with **aggregation** shown in the **Switch Role** column and click the boxes next to those switches.



- d) Click **Actions > Quick Attach**, then go to [Step 5, on page 11](#).

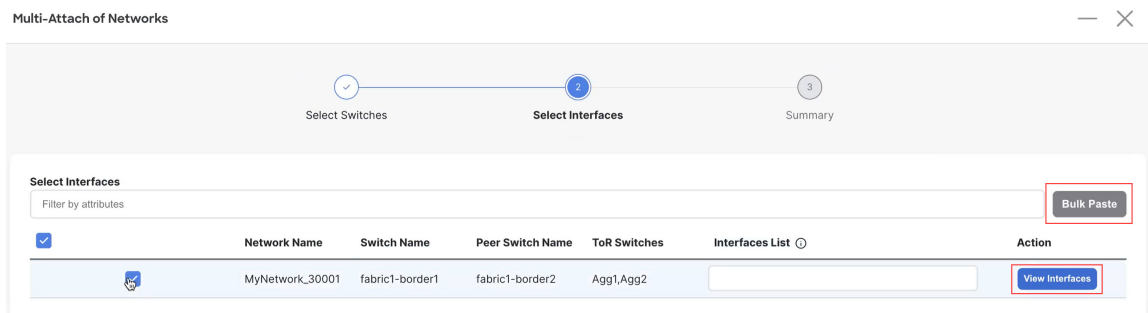
- If you want to perform a **multi-attach**:

- a) In the **Networks** tab for the Enhanced Classic LAN fabric, click on the Layer 3 network that you just created, then click **Actions > Multi-Attach**.



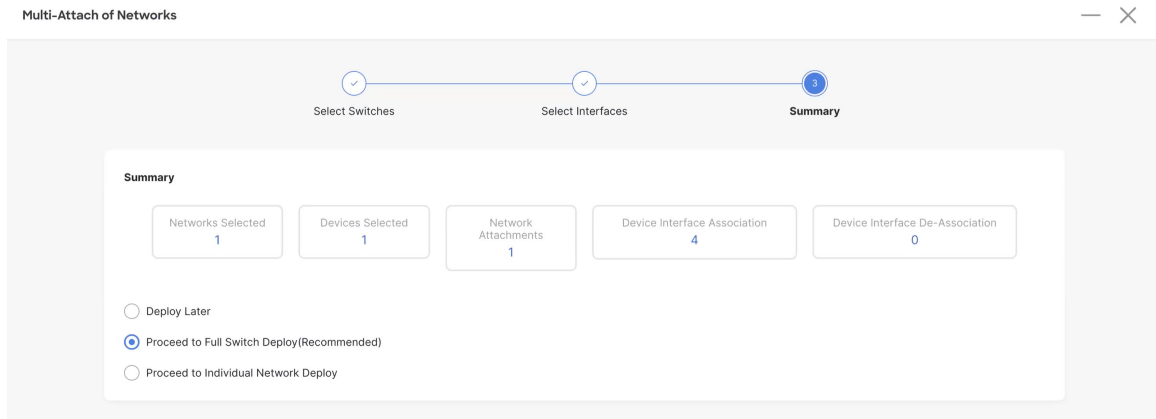
- b) Click the box next to each switch that you want to attach to the network, then click **Next**.

- c) Click the box next to each interface that you want to select, then select the interfaces using either **Bulk Paste** or **View Interfaces**.



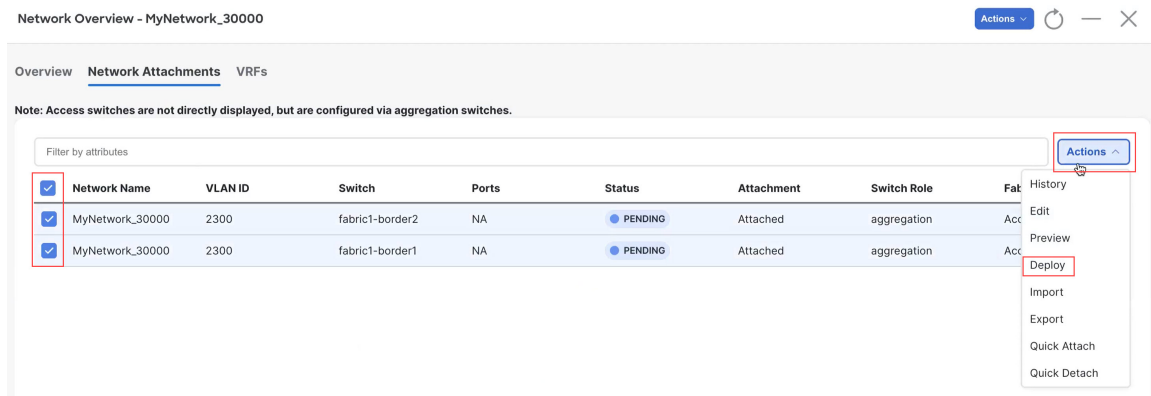
- If you select **Bulk Paste**, enter the interfaces to be pasted in the **Interfaces List** area, then click **Save**.

- If you select **View Interfaces**, click the boxes next to the specific ports that you want to attach in the following screen, then click **Save**.
- d) In the Select Interfaces window, click **Next**.
- e) Make the necessary deployment selection in the next window, then click **Save**.



**Step 5** Deploy the network.

In the **Network Attachments** window, select the networks that you just attached, then click **Actions > Deploy**.



**Step 6** When the recalculation process is completed, click **Deploy** and verify that the status shown in the **Config Status** column shows as **In-Sync**.

Deploy Configuration - Access-Agg-Fab

Filter by attributes

Network Name	Fabric Name	Switch Name	Serial Number	IP Address	Role	Network Status	Status Description	Progress
MyNetwork_30000	Access-Agg-Fab	fabric1-border2	FD022230TDY	172.25.65.131	aggregation	In-Sync	Config compliance sync completed	<div style="width: 100%;"></div>
MyNetwork_30000	Access-Agg-Fab	fabric1-border1	FD022230BXL	172.25.65.130	aggregation	In-Sync	Config compliance sync completed	<div style="width: 100%;"></div>

### What to do next

Configure the VRF Lite extension using the procedures provided in [Configure the VRF Lite Extension, on page 12](#).

## Configure the VRF Lite Extension

In these procedures, you will configure the VRF Lite extension between the Aggregation and Core switches. NDFC supports either automatic or manual configuration modes for VRF Lite between the Aggregation and Core switches. For this use case, we will configure VRF Lite using the automatic configuration.

You can go through the configurations in this section whether you have a three-tier topology or a two-tier (Collapsed Core) topology. However, in order to be able to configure the VRF Lite extension, you must have created a custom VRF for the Layer 3 network in [Create a Layer 3 Network, on page 6](#), rather than using a default VRF.

### Step 1

Verify that the necessary default configurations in the **Resources** page are set correctly for VRF Lite.

a) In NDFC, navigate to **LAN > Fabrics**, if you are not there already.

A page showing all of the configured fabrics appears.

b) Double-click the Enhanced Classic LAN fabric that you created using the procedures provided in [Configure the Enhanced Classic LAN Fabric](#).

The **Fabric Overview** page for that fabric appears.

c) Click **Actions > Edit Fabric**.

The **Edit Fabric** page appears.

d) Click the **Resources** tab.

e) Verify that the necessary default configurations in the **Resources** page are set correctly for VRF Lite.

- In the **Agg-Core/Agg-Edge Connectivity** field, verify that the **Auto** option is set.

The Aggregation-Core peering protocol that will be used is based on the setting that you entered in the **Routing Protocol** field in [Configure the Enhanced Classic LAN Fabric](#).

- Check the box in the **Auto Generate VRF Lite Configuration on Agg and Core/Edge** field to enable this option.

- If the **Routing Protocol** field is set to **ebgp** and you are using the Cisco Nexus 7000 or 9000 Series switches, or the Cisco Catalyst 9000 series switches for the Core layer, enabling the **Auto Generate VRF Lite Configuration on Agg and Core/Edge** option automatically generates the VRF Lite configuration on the Aggregation and Core switches.
- If the **Routing Protocol** field is set to **ospf** and you are using the Cisco Nexus 7000 or 9000 Series switches for the Core layer, enabling the **Auto Generate VRF Lite Configuration on Agg and Core/Edge** option automatically generates the VRF Lite configuration on the Aggregation and Core switches.
- In other cases, such as using Cisco ASR 9000 Series Aggregation Service Routers as the Core Router or Edge Router, then the VRF Lite intent and configurations will not be automatically generated on the Core Router or Edge Router. Instead, for each VRF, you must manually create a policy using the necessary policy.

## Edit Fabric : Access-Agg-Fab

Fabric Name  
Access-Agg-Fab

Pick Fabric  
Enhanced Classic LAN >

General Parameters Spanning Tree VPC Protocols Advanced **Resources** Manageability Bootstrap Configuration Backup Flow Monitor

Network VLAN Range  
2300-2999 Per Switch Network VLAN Range (Min:2, Max:4094)

Agg-Core/Agg-Edge Connectivity  
Auto VRF Lite Agg-Core and Agg-Edge Router Inter-Fabric Connection Options

VRF Lite Subinterface dot1q Range  
2-511 Per Agg dot1q Range for VRF Lite Connectivity (Min:2, Max:4093)

Auto Generate VRF Lite Configuration on Agg and Core/Edge  
 Flag that controls auto generation of VRF LITE sub-interface and peering configuration on Agg & Core/Edge devices. If set, auto created VRF Lite links will have 'Auto Generate Flag' enabled.

VRF Lite IP Version  
IPv4\_only Choice of IPv4, IPv6 or both.

**Step 2**

Verify that the links between the Aggregation and Core switches have the correct templates attached and the proper settings applied.

- Navigate back to the **Fabric Overview** page for the Enhanced Classic LAN fabric.  
The **Overview** page for that fabric appears.
- Click the **Links** tab.
- Locate the links from the Aggregation switches to the Core switches in this page.

For example, you would have two Aggregation switches and one Core switch for this use case, so you would therefore locate these two links in this page:

- The link between the first Aggregation switch and the Core switch
- The link between the second Aggregation switch and the Core switch

- d) Click on the box next to the link between the first Aggregation switch and the Core switch, then click **Actions** > **Edit**.

The screenshot shows the 'Fabric Overview - Access-Agg-Fab' page. The 'Links' tab is active, and a table lists several links. The first link is selected, and the 'Actions' menu is open, showing options like 'Edit', 'Delete', 'Import', and 'Export'. The 'Edit' option is highlighted.

Fabric Name	Name	Policy	Info	Admin State	Oper State
Access-Agg-Fab←>Core-Fab	fabric1-border1-Ethernet1/9---xbow2-Ethernet1/15	ext_fabric_setup	Link Present	↑ Up	↑ Up
Access-Agg-Fab←>Core-Fab	fabric1-border2-Ethernet1/9---xbow2-Ethernet1/16	ext_fabric_setup	Link Present	↑ Up	↑ Up
Access-Agg-Fab←>Core-Fab	fabric1-border2-Ethernet1/8---xbow1-Ethernet5/13	ext_fabric_setup	Link Present	↑ Up	↑ Up
Access-Agg-Fab←>Core-Fab	fabric1-border1-Ethernet1/8---xbow1-Ethernet5/4	ext_fabric_setup	Link Present	↑ Up	↑ Up

The **Link Management - Edit Link** page appears for this link.

- e) Verify that `VRF_LITE` is automatically selected in the **Link Sub-Type** field.  
 f) Verify that all of the remaining parameters are automatically populated correctly, such as the source and destination fabrics, devices, and interfaces.

#### Link Management - Edit Link : LINK-UUID-4160

The screenshot shows the 'Link Management - Edit Link' page for LINK-UUID-4160. The 'Link Sub-Type' field is highlighted with a red box, showing 'VRF\_LITE' selected. Other fields are populated with values like 'Inter-Fabric', 'ext\_fabric\_setup', 'Access-Agg-Fab', 'Core-Fab', 'fabric1-border1', 'xbow2', 'Ethernet1/9', and 'Ethernet1/15'.

- g) (Optional) Repeat these steps for the remaining links from the Aggregation switches to the Core switches in this page, if you want additional verification.

For example, since we have two Aggregation switches in this use case, you would click the link between the second Aggregation switch and the Core switch in this page, then repeat these steps to verify that the links between the second Aggregation switch and the Core switch have the correct templates attached and the proper settings applied.

**Step 3** In the **Fabric Overview** page for the Enhanced Classic LAN fabric, click the **VRFs** tab.

**Step 4** Double-click the custom VRF that you created for the Layer 3 network.

The **VRF Overview** page appears for this VRF.

**Step 5** Click the **VRF Attachments** tab.

The VRF attachments for this VRF are displayed.

**Step 6** Click the boxes next to the VRF attachments that you want to extend using VRF Lite and click **Actions > Edit**.

VRF Overview - default

Overview **VRF Attachments** Networks

Note: Access switches are not directly displayed, but are configured via aggregation switches.

Filter by attributes

<input checked="" type="checkbox"/>	VRF Name	VLAN ID	Switch	Status	Attachment	Switch Role	Actions
<input checked="" type="checkbox"/>	default	2000	fabric1-border2	DEPLOYED	Attached	aggregation	History Edit Preview
<input checked="" type="checkbox"/>	default	2000	fabric1-border1	DEPLOYED	Attached	aggregation	Deploy Import Export Quick Attach Quick Detach

**Step 7** In the **Edit VRF Attachment** page, make the necessary configurations to extend the VRF attachments using VRF Lite to attach the Aggregation switches to the Core switch.

- Flip the switch to **Attach** at the top of the page.
- In the **Extend** field, choose the **VRF\_LITE** option.
- Click **Attach-All**.

Edit VRF Attachment - default

fabric1-border2(FDO22230TDY) - fabric1-border(FDO22230BXL)

Detach  Attach

VLAN\*  
2000

Extend\*  
VRF\_LITE

fabric1-border2(FDO22230TDY)

CLI Freeform Config  
Edit >  
All configs should strictly match the 'show run' output, including cases and new line  
Any mismatches will yield unexpected diffs during deploy

SVI IPv4 Address/Netmask  
VPC Peer SVI IPv4 Address  
SVI IPv6 Address/Netmask  
VPC Peer SVI IPv6 Address

Extension  
Filter by attributes

fabric1-border(FDO22230BXL)

CLI Freeform Config  
Edit >  
All configs should strictly match the 'show run' output, including cases and new line  
Any mismatches will yield unexpected diffs during deploy

SVI IPv4 Address/Netmask  
VPC Peer SVI IPv4 Address  
SVI IPv6 Address/Netmask  
VPC Peer SVI IPv6 Address

Attach-All Detach-All

Cancel Save

Click **Save** once you have completed the necessary configurations in the **Edit VRF Attachment** page. You are returned to the **VRF Attachments** page.

## Step 8

Deploy the configuration using either of the two methods described below.

- In the **VRF Attachments** page, select the two VRF attachments and click **Actions > Deploy**.

VRF Overview - default

Actions Refresh

Overview **VRF Attachments** Networks

Note: Access switches are not directly displayed, but are configured via aggregation switches.

Filter by attributes

<input checked="" type="checkbox"/>	VRF Name	VLAN ID	Switch	Status	Attachment	Switch Role	Actions ^
<input checked="" type="checkbox"/>	default	2000	fabric1-border2	PENDING	Attached	aggregation	History Edit Preview Deploy Import Export Quick Attach Quick Detach
<input checked="" type="checkbox"/>	default	2000	fabric1-border1	PENDING	Attached	aggregation	

- In the **Fabric Overview** page for the Enhanced Classic LAN fabric, click the **Switches** tab and click the boxes next to the two Aggregation switches, then click **Actions > Deploy**.

## Step 9

If you created a External Connectivity Network fabric for the core tier using the procedures in [Configure the External Connectivity Network Fabric](#), navigate back to **LAN > Fabrics** and double-click on the External Connectivity Network fabric.

You must perform the same operations on the External Connectivity Network fabric to enable the pending configurations for VRF Lite to also be pushed to the Core switches.



**Step 10** In the **Fabric Overview** page for the External Connectivity Network fabric, click the **Switches** tab and click the box next to the Core switch, then click **Actions** > **Deploy**.

Fabric Overview - Core-Fab

Overview **Switches** Links Interfaces Policies Event Analytics History Resources Metrics

Filter by attributes

<input checked="" type="checkbox"/>	Switch	IP Address	Role	Serial Number	Mode	Config Status	Oper Status	Discovery Status	Model
<input checked="" type="checkbox"/>	xbow1		Core Router		Normal	Pending	Healthy	Ok	N77-C7706
<input checked="" type="checkbox"/>	xbow2		Core Router		Normal	Pending	Healthy	Ok	N77-C7702

Actions

- Add Switches
- Preview
- Deploy
- Discovery >
- Set Role
- vPC Pairing
- ToR/Access Pairing
- vPC Overview
- More >

**Step 11** Preview the configuration updates as the deployment process progresses.

You can click on the blue link in the **Pending Config** column to get additional information on the changes that are being configured for the Core switch.

### Pending Config - Core-Fab - xbow2

[Pending Config](#) [Side-by-Side Comparison](#)

```
interface ethernet1/16.2
  no vrf member myvrf_50001
interface ethernet1/15.2
  no vrf member myvrf_50001
router bgp 65011
  neighbor 10.33.0.5
    remote-as 65535
    address-family ipv4 unicast
      send-community both
    exit
  exit
  neighbor 10.33.0.9
    remote-as 65535
    address-family ipv4 unicast
      send-community both
    exit
  exit
vrf myvrf_50001
  address-family ipv4 unicast
  neighbor 10.33.0.5
    remote-as 65535
  address-family ipv4 unicast
    send-community both
  exit
  exit
  neighbor 10.33.0.9
```

**Step 12** When the recalculation process is completed, click **Deploy All** and verify that the status shown in the **Config Status** column shows as **In-Sync**.

Configure the VRF Lite Extension

Fabric Overview - Access-Agg-Fab

Overview **Switches** Links Interfaces Interface Groups Policies Networks VRFs Event Analytics History Resources Metrics

Filter by attributes Actions

<input type="checkbox"/>	Switch	IP Address	Role	Serial Number	Mode	Config Status	Oper Status	Discovery Status	Model	VPC Role	VPC Peer
<input type="checkbox"/>	Agg1		Access		Normal	In-Sync	Minor	Ok	N9K-C93180YC-EX	Primary	Agg2
<input type="checkbox"/>	Agg2		Access		Normal	In-Sync	Minor	Ok	N9K-C93180YC-EX	Secondary	Agg1
<input type="checkbox"/>	fabric1-border1		Aggregation		Normal	In-Sync	Minor	Ok	N9K-C93180YC-EX	Primary	fabric1-b
<input type="checkbox"/>	fabric1-border2		Aggregation		Normal	In-Sync	Minor	Ok	N9K-C93180YC-EX	Secondary	fabric1-b